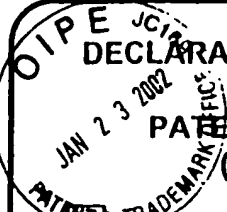


Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

 DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)	Attorney Docket Number	495263010035
	First Named Inventor	Pramod K. Arora
	COMPLETE IF KNOWN	
	Application Number	/
	Filing Date	
<input checked="" type="checkbox"/> Declaration Submitted with Initial Filing OR <input type="checkbox"/> Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)	Group Art Unit	
	Examiner Name	

As a below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

COMPOSITION WITH FILM FORMING ALKYLSESQUIOXANE POLYMER
AND METHOD FOR APPLYING HYDROPHOBIC FILMS TO SURFACES

(Title of the invention)

the specification of which

☒ Is attached hereto

OR

☐ was filed on (MM/DD/YYYY) as United States Application Number or PCT International

Application Number and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

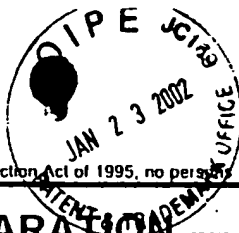
I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

[Page 1 of 2]

Burden Hour Statement: This form is estimated to take 21 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



PTO/SB/01 (03-01)

Approved for use through 10/31/2002. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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DECLARATION — Utility or Design Patent ApplicationDirect all correspondence to: ☒ Customer Number or Bar Code Label ☐ OR ☒ Correspondence address belowName H. Duane Switzer
Jones, Day, Reavis & PogueAddress North Point
901 Lakeside Avenue

City Cleveland

State OH

ZIP 44114-1190

Country US

Telephone 216-586-7283

Fax 216-579-0212

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

NAME OF SOLE OR FIRST INVENTOR: ☒ A petition has been filed for this unsigned inventorGiven Name PRAMOD K.
(first and middle (if any))Family Name ARORA
or SurnameInventor's
Signature

Date

Residence: City North Royalton

State OH

Country US

Citizenship India

Mailing Address 5144 Pinckney Drive

City North Royalton

State OH

ZIP 44133

Country US

NAME OF SECOND INVENTOR: ☐ A petition has been filed for this unsigned inventorGiven Name BRIJ P.
(first and middle (if any))Family Name SINGH
or SurnameInventor's
Signature

Date 7-02-01

Residence: City North Royalton

State OH

Country US

Citizenship US

Mailing Address 13010 Morning Star Drive

City North Royalton

State OH

ZIP 44133

Country US

☐ Additional Inventors are being named on the _____ supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.

**DECLARATION FOR UTILITY OR
DESIGN
PATENT APPLICATION
(37 CFR 1.63)**

Attorney Docket Number **495263010035**

First Named Inventor **Pramod K. Arora**

COMPLETE IF KNOWN

Application Number

Filing Date

Group Art Unit

Examiner Name

☒ Declaration Submitted with Initial Filing OR ☐ Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)

As a below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

COMPOSITION WITH FILM FORMING ALKYLSELSSESQUIOXANE POLYMER
AND METHOD FOR APPLYING HYDROPHOBIC FILMS TO SURFACES

(Title of the Invention)

the specification of which

☒ is attached hereto

OR

☐ was filed on (MM/DD/YYYY) as United States Application Number or PCT International

Application Number and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

(Page 1 of 2)

DECLARATION — Utility or Design Patent ApplicationDirect all correspondence to: ☒ Customer Number or Bar Code Label OR ☒ Correspondence address belowName **H. Duane Switzer
Jones, Day, Reavis & Pogue**Address **North Point
901 Lakeside Avenue**City **Cleveland** State **OH** ZIP **44114-1190**Country **US** Telephone **216-586-7283** Fax **216-579-0212**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

NAME OF SOLE OR FIRST INVENTOR : ☐ A petition has been filed for this unsigned inventorGiven Name
(first and middle [if any]) **PRAMOD K.**Family Name
or Surname **ARORA**Inventor's
Signature

Date

Residence: City **North Royalton** State **OH** Country **US** Citizenship **India**Mailing Address **5144 Pinckney Drive**City **North Royalton** State **OH** ZIP **44133** Country **US**NAME OF SECOND INVENTOR: ☐ A petition has been filed for this unsigned inventorGiven Name
(first and middle [if any]) **BRIJ P.**Family Name
or Surname **SINGH**Inventor's
Signature

Date

Residence: City **North Royalton** State **OH** Country **US** Citizenship **US**Mailing Address **13010 Morning Star Drive**City **North Royalton** State **OH** ZIP **44133** Country **US**☐ Additional inventors are being named on the ____ supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.

Please type a plus sign (+) inside this box → +

PTO/SB/81 (02-01)

Approved for use through 10/31/2002. OMB 0651-0035

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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**POWER OF ATTORNEY OR
AUTHORIZATION OF AGENT**

Application Number

Filing Date

First Named Inventor

Title

Group Art Unit

Examiner Name

Attorney Docket Number

Pramod K. Arora

495263010035

I hereby appoint:

☒ Practitioners at Customer Number

24325

OR

☐ Practitioner(s) named below:

Name	Registration Number



24325

PATENT, TRADEMARK OFFICE

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please change the correspondence address for the above-identified application to:

☐ The above-mentioned Customer Number.

OR

☐ Practitioners at Customer Number

Place Customer
Number Bar Code
Label here

☐ Firm or
Individual Name

Address

Address

City

State

Zip

Country

Telephone

Fax

I am the:

☒ Applicant/Inventor.

☐ Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

SIGNATURE of Applicant or Assignee of Record

Name

Pramod K. Arora

Signature

Y

Date

Y

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

☒ Total of 2 forms are submitted.

Burden Hour Statement: This form is estimated to take 3 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Pramod K. Arora and Brij P. Singh

Serial No. : 09/887,661

Filed : August 3, 2001

Title : COMPOSITION WITH FILM FORMING
ALKYLSILSESQUIOXANE POLYMER AND
METHOD FOR APPLYING HYDROPHOBIC
FILMS TO SURFACES

Group Art Unit : 1762

Last Office Action : Notice To File Missing Parts Of
Nonprovisional Application dated
10/09/01

Attorney Docket No. : 495263010035

SMALL ENTITY STATUS

Box Missing Parts
Commissioner for Patents
Washington, D. C. 20231

I hereby certify that this correspondence
is being deposited today with the United
States Postal Service as first class mail in
an envelope addressed to: Assistant
Commissioner for Patents Washington,
D.C. 20231
on NOVEMBER 14, 2001

By: H Duane Switzer

Sir:

This application is entitled to small entity status under 37 CFR 1.9(f) and 37 CFR

1.27.

Respectfully submitted,

H Duane Switzer
H. Duane Switzer
Reg. No. 22,431
Jones, Day, Reavis & Pogue
North Point
901 Lakeside Avenue
Cleveland, Ohio 44114-1190
216-586-7283

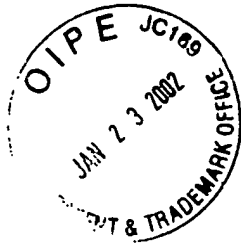
JONES, DAY, REAVIS & POGUE

NORTH POINT • 901 LAKESIDE AVENUE

CLEVELAND, OHIO 44114-1190

TELEPHONE: 216-586-3939 • FACSIMILE: 216-579-0212

WRITER'S DIRECT NUMBER:



June 26, 2001

216-586-7283

hswitzer@jonesday.com

495263-010-035

CERTIFIED MAIL NO. 7099 3400 0000 7911 0761
RETURN RECEIPT REQUESTED

Mr. Pramod K. Arora
5144 Pinckneya Drive
North Royalton, OH 44133

Re: Proposed U.S. Patent Application For:
COMPOSITION WITH FILM FORMING
ALKYLSILSESQUIOXANE POLYMER
AND METHOD FOR APPLYING
HYDROPHOBIC FILMS TO SURFACES
Our File: 495263-010-035

Dear Mr. Arora:

Enclosed please find a patent application related to the solid state alkylsilsesquioxane polymers that you helped to develop while employed at nanoFILM. Copies of the literature and patents referred to in the patent specification are enclosed for your file.

Please review the application carefully and let me know of any changes that you consider appropriate. If the application is satisfactory, please sign and date all of the formal papers, and return them to me at your earliest convenience.

We would be pleased to answer any questions that you may have, and also remind you that this patent application and its subject matter are covered by the confidentiality agreement that you signed while employed by nanoFILM. Your cooperation is appreciated.

Very truly yours,

H. Duane Switzer

Enclosures:
Application/Drawing
Formal Papers (Declaration & Power of Atty/Assignment)
Prior Art References



"Pramod Arora"
<parora@core.com>

07/03/01 10:15 AM

To: <hswitzer@jonesday.com>
cc:
Subject: patent application 6/26/01

Dear Mr. Switzer,

It is my pleasure talking to you first time in my life. I am sorry that I could not get chance nor given a chance to communicate with you with patent related matters while employed at Nanofilm.

I am also sorry that I could not get back to you earlier as I was out of town for couple of days. Yesterday, my wife told me that you called and it was late to contact. I did received a patent application to review and was asked to sign. I do not have time to go through and to see what you have wrote.

In my earlier patent Brij has added his name in my work, which leads to patent. It seem that Brij and Scott decides whose name should be included in the patent without a inventor or attorney consent. Nanofilm also promised to pay me \$3000 each patent once they get published or awarded. Now they have changed their policy and refused to pay me patent reward. I am seeking legal advice and therefore have no interest to go through this or any future patent to Nanofilm from my work. I do also fully understand that I will keep all subject matters confidential according to my employment agreement with Nanofilm.

If you have any question please reply to this e-mail and I will be very happy to discuss anything you might have.

Thanks,

Pramod Arora

P.S. I will return all documents file (which you sent on 6/26/01) to you tomorrow as it is not appropriate for me keep.

September 19, 2000

To: Dr. Brij Singh
VP, Technology
NANOFILM

From: Dr. Pramod Arora
Director, Thin Film Technology

Sub: Resignation from employment

Dear Dr. Singh,

Over the years working at NANOFILM was very exiting and challenging and I tried to be a loyal employee. It was a great experience working under your supervisions and some time it was very difficult to perform my duties under very tight schedule without getting an award. I have always enjoyed my profession, no matter where I have worked with true devotion and honesty. I can not fool others or myself. I am a person who always respect peoples and helps them when they needed the most. Last year, I was told that company will provide all the resources and instrumentation to perform my duties and finish a project in a scientific and systematic manner. But due to limited resources and not having proper instrumentation in hand my performance was always judged on the basis of accomplishment of a project.

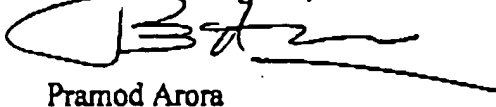
A manager or a company representative should give all the resources and required instrumentation to a project director and let the person do his job in a best possible manner. Project director is required to submit monthly report.

I am submitting my resignation effective immediately. I will be cleaning my office and give all the necessary notebook and papers to you by the end of this week. Therefore, this Friday, September 22, 2000 will be my last day at NANOFILM.

I also understand that I will be rewarded for each patents a sum of \$3000 each once they get approved or published. We have submitted two patents (1998 and 1999) and there are two more to be submitted and these are Plasma Cup and Anti-fog hard coating. Pelisse on car windows, PermaSeal for AR lenses and InkBeGone products should also be rewarded as well if company market them in the next 12 months.

Thank you for your help and co-operation during my stay at NANOFILM. If I can be any helpful to you or anyone while not employed by NANOFILM please never hesitate to contact me at any time.

With sincere regards,



Pramod Arora

To: Pramod Arora
From: Brij Singh
Date: September 22, 2000
RE: Resignation Effective on September 22, 2000

Dear Pramod,

First I want to thank you for 10 years of service to Nanofilm. You have made many contributions, and I wish you the very best in your future endeavors.

In your letter of resignation, you mentioned a potential future cash bonus for two potential patents at a future time when the patents are approved. Nanofilm realizes that there is a possible misunderstanding regarding our current incentive plan in R & D, and we wish to resolve that misunderstanding in a manner that works for both you and the company. The plan with which we are currently operating provides a potential salary increase at the time a new product is commercialized, not a cash bonus. This plan is somewhat different than some of our practices in the past, such as in 1998 and 1999. We would like to resolve this misunderstanding in the following way.

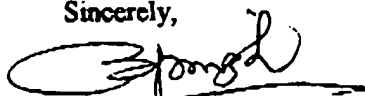
In return for your agreements outlined below, we will continue your salary for two additional pay periods and maintain your enrollment in company benefits. This would result in a normal direct deposit in the amount of your regular two week salary on October 6 and again on October 20. The agreements are as follows.

You agree to fully honor your non-disclosure agreement with the Company. You agree not to compete with our Company in our direct lines of product for a period of one year by working for or consulting with our current customers on our specific products. The specific customers covered by this agreement are Satis Vacuum, Barberini, Pentax Optical, Denton Vacuum, and other current customers for our direct lines of products. Please acknowledge your agreement to these terms by signing a copy of this letter below. Should you wish some time to think about this agreement, it can remain open up to September 26, 2000. After that date it will no longer be valid.

In addition, we want to clarify the purchase of your 1,900 Equity Credits by Nanofilm. Per the Equity Credit plan, Nanofilm will buy back your shares at the current price of \$3.00 per share. The total current value of these shares is \$5,700. You have purchased these shares in 3 purchase transactions for a total cost of \$2,238. As a result, the \$3,462 difference between your cost and the current value is recognized compensation and will be subject to normal payroll taxes. Nanofilm will be paying you \$5,700 minus the tax withholdings required on the recognized compensation portion no later than October 6. You will also be receiving a refund of \$206.25 for withholdings that you authorized for this year.

Thanks again for your many years of contribution and good luck in your future.

Sincerely,



Brij Singh
Vice President, Technology

Agreed to by: _____

Date: _____

CARYN M. GROEDEL

Attorney at Law

3681 Green Road
Suite 410
Beachwood, Ohio 44122

Phone: (216) 831-7077
Fax: (216) 831-2135
email: cgroedel@aol.com

July 10, 2001

via facsimile: 216-447-1199

Dr. Scott Rickert
10111 Sweet Valley Drive
Valley View, OH 44125

Dear Dr. Rickert:

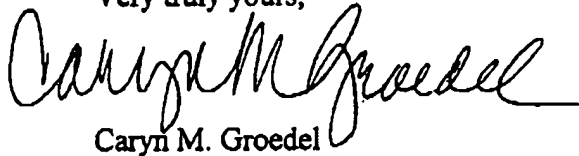
I am writing on behalf of Pramod Arora, who has sought my legal advice and counsel in connection with Nanofilm's non-payment of certain performance incentives he was promised during his employment with Nanofilm.

Specifically, Dr. Arora is entitled to \$1,000 for each patent obtained on his work as well as \$2,000 for each process and product he developed that is sold in the marketplace, for a total of \$3,000 for each patent. Thus far, he was paid \$3,000 for the gel patent. However, he is still owed the \$3,000 bonus for the MgF2 patent obtained in November of 2000, as well as \$3,000 for the Ampoule patent obtained in January 2001, and \$3,000 for the Container patent obtained in March 2001, for a total of \$9,000. Moreover, if the Plasma Cup patent is obtained, which was recently submitted for approval by Nanofilm, Dr. Arora will be entitled to an additional \$3,000.

We have your promises in writing, and are willing to litigate this matter if full payment is not made within two weeks from today.

I urge you or your attorney to contact me promptly in an effort to resolve this issue amicably.

Very truly yours,



Caryn M. Groedel

CMG:ji

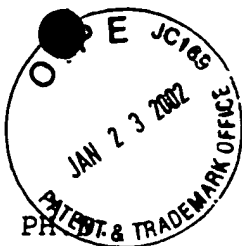
JOINT

ASSIGNMENT

In consideration of One Dollar and other good and valuable consideration, receipt of which is hereby acknowledged, I, **PRAMOD K. ARORA**, ("ASSIGNOR"), a citizen of India, residing in North Royalton, Ohio, hereby sell, transfer, set over and assign unto **nanoFILM, Ltd.** ("ASSIGNEE"), an Ohio Limited Liability Company of the State of Ohio, having a principal place of business at 10111 Sweet Valley Drive, Valley View, Ohio 44125-4250, its successors, assigns, nominees, or other legal representatives, the entire worldwide right, title and interest in and to the invention **COMPOSITION WITH FILM FORMING ALKYLSESQUIOXANE POLYMER AND METHOD FOR APPLYING HYDROPHOBIC FILMS TO SURFACES** invented jointly by me and **BRIJ P. SINGH**, and the application for United States patent therefor, executed concurrently herewith, and all original and reissued patents granted therefor, and all divisions and continuations thereof, including the subject matter of any and all claims which may be obtained in every such patent, and the right to apply for and obtain patents in countries foreign to the United States, and in and to any Letters Patent which may be granted thereon in such foreign countries, and authorize and request the Commissioner of Patents and Trademarks of the United States, and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue the said Letters Patent to the said ASSIGNEE, its successors, assigns, nominees or other legal representatives, as assignee and owner of the entire interest, and covenant that I have full right to convey the entire interest herein assigned and that I have not executed and will not execute any agreement in conflict herewith, and agree that I will communicate to said ASSIGNEE, its successors, assigns, nominees or other legal representatives, all facts known to me respecting said invention, whenever requested, and testify in any legal proceedings, sign all lawful papers, execute and deliver all divisional, continuing and reissue applications, make lawful papers, execute and deliver all divisional, continuing and reissue applications, make all rightful oaths and do all lawful acts requisite for the application for such divisional, continuing or reissue applications, or the procuring thereof, and that if and when said ASSIGNEE, its successors, assigns, nominees or other legal representatives desire to file a disclaimer relating thereto I will, upon request, sign and deliver all

APRIL 04, 1997

BARBARA E. ARNDT, PH.D.
JONES, DAY, REAVIS & POGUE
NORTH POINT - 901 LAKESIDE AVENUE
CLEVELAND, OH 44114-1190



PTAS



UNITED STATES DEPARTMENT OF COMMERCE
Patent & Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231



100351144A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, NORTH TOWER BUILDING, SUITE 10C35, WASHINGTON, D.C. 20231.

RECORDATION DATE: 11/25/1996

REEL/FRAME: 8330/0694

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

SINGH, BRIJ P.

DOC DATE: 11/22/1996

ASSIGNOR:

ARORA, PRAMOD K.

DOC DATE: 11/22/1996

ASSIGNEE:

NANOFILM CORPORATION

10111 SWEET VALLEY DRIVE

VALLEY VIEW, OHIO 44125-4250

SERIAL NUMBER: 08755964

FILING DATE: 11/25/1996

PATENT NUMBER:

ISSUE DATE:

KIMBERLY BARNES, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS



To the Honorable Commissioner of Patents

100351144

checked original documents or copy thereof.

Name of conveying party(ies)
Brij P. Singh and
Pramod K. Arora
Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

Nature of conveyance: MRD 11-25-96
☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____
Execution Date: November 22, 1996

2. Name and address of receiving party(ies)
Name: NanoFilm Corporation
Internal Address: 10111 Sweet Valley Drive
Valley View, Ohio 44125-4250
Street Address: (same as above)
City: _____ State: _____ ZIP: _____
Additional name(s) & address(es) attached? ☐ Yes ☒ No

Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: November 21, 1996

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

70189 U.S. PTO
02/05/97

Name and address of party to whom correspondence concerning document should be mailed:
Name: Barbara E. Arndt, Ph.D.
Internal Address: Jones, Day, Reavis & Pogue
North Point - 901 Lakeside Avenue
Cleveland, Ohio 44114-1190
Street Address: (same as above)
City: _____ State: _____ ZIP: _____

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00
☒ Enclosed
☒ Authorized to be charged to deposit account for any deficit.

8. Deposit account number:
10-1202
(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

40-E

Statement and signature.
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Barbara E. Arndt
Name of Person Signing

Barbara E. Arndt
Signature

November 25, 1996
Date

Total number of pages including cover sheet, attachments, and document: 3

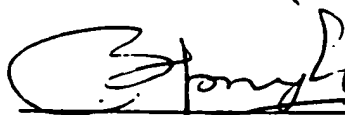
JOINT

A S S I G N M E N T

In consideration of One Dollar and other good and valuable consideration, receipt of which is hereby acknowledged, we, **BRIJ P. SINGH** and **PRAMOD K. ARORA**, ("ASSIGNORS"), citizens of the United States and India, respectively, residing in North Royalton, Ohio, respectively, hereby sell, transfer, set over and assign unto **NanoFilm Corporation** ("ASSIGNEE"), a corporation of the State of Ohio, having a principal place of business at 10111 Sweet Valley Drive, Valley View, Ohio 44125-4250, its successors, assigns, nominees, or other legal representatives, the entire right, title and interest in and to the invention **METHOD FOR MODIFYING SURFACES WITH ULTRA THIN FILMS** invented by us and the application for United States patent therefor, executed concurrently herewith, and all original and reissued patents granted therefor, and all divisions and continuations thereof, including the subject matter of any and all claims which may be obtained in every such patent, and the right to apply for and obtain patents in countries foreign to the United States, and in and to any Letters Patent which may be granted thereon in such foreign countries, and authorize and request the Commissioner of Patents and Trademarks of the United States, and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue the said Letters Patent to the said ASSIGNEE, its successors, assigns, nominees or other legal representatives, as assignee and owner of the entire interest, and covenant that we have full right to convey the entire interest herein assigned and that we have not executed and will not execute any agreement in conflict herewith, and agree that we will communicate to said ASSIGNEE, its successors, assigns, nominees or other legal representatives, all facts known to us respecting said invention, whenever requested, and testify in any legal proceedings, sign all lawful papers, execute and deliver all divisional, continuing and reissue applications, make lawful papers, execute and deliver all divisional, continuing and reissue applications, make all rightful oaths and do all lawful acts requisite for the application for such divisional, continuing or reissue applications, or the procuring thereof, and that if and when said ASSIGNEE, its successors, assigns, nominees or other legal representatives desire to file a disclaimer relating thereto we will, upon request, sign and deliver all lawful papers requisite for the filing of such disclaimer, and we further covenant and agree that we will, at any time upon request, do everything legally possible to aid said ASSIGNEE, its successors, assigns, nominees or other legal representatives, either in its or our own

DOCKET NO. 495263010018

names, to apply for, obtain and enforce proper patent protection in all countries, including priority rights granted to patents in foreign countries according to all the laws and treaties in force, all without further consideration but at the expense of said ASSIGNEE, its successors, assigns, nominees or other legal representatives.



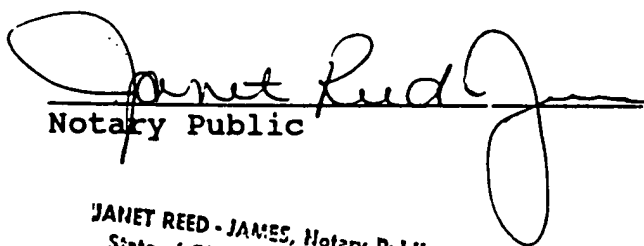
BRIJ P. SINGH



PRAMOD K. ARORA

STATE OF OHIO)
) SS.
COUNTY OF CUYAHOGA)

This 22 day of NOV, 1996 before me personally came the above-named BRIJ P. SINGH and PRAMOD K. ARORA, to me personally known as the individuals who executed the foregoing Assignment, and who acknowledged to me that they executed the same of their own free will for the purpose therein set forth.



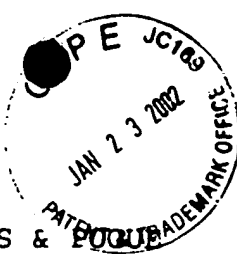
Notary Public

(SEAL)

JANET REED-JAMES, Notary Public
State of Ohio, Cuyahoga County
My Commission Expires Nov. 5, 2000

OCTOBER 01, 1998

JONES, DAY, REAVIS & POCOCK
JACQUELINE M. O'BRIEN
NORTH POINT
901 LAKESIDE AVENUE
CLEVELAND, OH 44114



PTAS



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231



100771999A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 07/20/1998

REEL/FRAME: 9322/0889
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

SINGH, BRIJ P.

DOC DATE: 07/07/1998

ASSIGNOR:

ARORA, PRAMOD K.

DOC DATE: 07/07/1998

ASSIGNEE:

NANOFILM, LTD.
10111 SWEET VALLEY DRIVE
VALLEY VIEW, OHIO 44125

SERIAL NUMBER: 09084944
PATENT NUMBER:

FILING DATE: 05/26/1998
ISSUE DATE:

JEEVON JONES, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS


JOINT

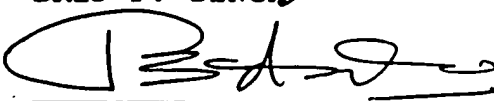
A S S I G N M E N T

In consideration of One Dollar and other good and valuable consideration, receipt of which is hereby acknowledged, we, **BRIJ P. SINGH** and **PRAMOD K. ARORA**, ("ASSIGNORS"), citizens of the United States and India, respectively, residing in North Royalton, Ohio, respectively, hereby sell, transfer, set over and assign unto **nanofilm, Ltd.** ("ASSIGNEE"), an Ohio Limited Liability Company, having a principal place of business at 10111 Sweet Valley Drive, Valley View, Ohio 44125-4250, its successors, assigns, nominees, or other legal representatives, the entire right, title and interest in and to the invention **METHOD FOR MODIFYING SURFACES WITH ULTRA THIN FILMS** invented by us and United States Patent Application Serial No. 09/084,944, filed May 26, 1998 therefor, and all original and reissued patents granted therefor, and all divisions and continuations thereof, including the subject matter of any and all claims which may be obtained in every such patent, and the right to apply for and obtain patents in countries foreign to the United States, and in and to any Letters Patent which may be granted thereon in such foreign countries, and authorize and request the Commissioner of Patents and Trademarks of the United States, and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue the said Letters Patent to the said ASSIGNEE, its successors, assigns, nominees or other legal representatives, as assignee and owner of the entire interest, and covenant that we have full right to convey the entire interest herein assigned and that we have not executed and will not execute any agreement in conflict herewith, and agree that we will communicate to said ASSIGNEE, its successors, assigns, nominees or other legal representatives, all facts known to us respecting said invention, whenever requested, and testify in any legal proceedings, sign all lawful papers, execute and deliver all divisional, continuing and reissue applications, make lawful papers, execute and deliver all divisional, continuing and reissue applications, make all rightful oaths and do all lawful acts requisite for the application for such divisional, continuing or reissue applications, or the procuring thereof, and that if and when said ASSIGNEE, its successors, assigns, nominees or other legal representatives desire to file a disclaimer relating thereto we will, upon request, sign and deliver all lawful papers requisite for the filing of such disclaimer, and we further covenant and agree that we will, at any time upon request, do everything legally possible to aid said ASSIGNEE, its successors, assigns, nominees or other legal representatives, either in its or our own

DOCKET NO. 495263010019

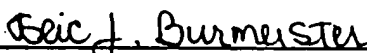
names, to apply for, obtain and enforce proper patent protection in all countries, including priority rights granted to patents in foreign countries according to all the laws and treaties in force, all without further consideration but at the expense of said ASSIGNEE, its successors, assigns, nominees or other legal representatives.


BRIJ P. SINGH


PRAMOD K. ARORA

STATE OF OHIO)
) SS.
COUNTY OF CUYAHOGA)

This 7TH day of July, 1998 before me personally came the above-named BRIJ P. SINGH and PRAMOD K. ARORA, to me personally known as the individuals who executed the foregoing Assignment, and who acknowledged to me that they executed the same of their own free will for the purpose therein set forth.


Notary Public

ERIC BURMEISTER, Notary Public
State of Ohio, Cuyahoga County
My Commission Expires Oct. 7, 2002

(SEAL)

FEBRUARY 02, 1999

JONES, DAY, REAVIS & POCOCK
H. DUANE SWITZER
NORTH POINT
901 LAKESIDE AVENUE
CLEVELAND, OHIO 44114



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231



100850569A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 10/01/1998

REEL/FRAME: 9498/0980
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

SINGH, BRIJ P.

DOC DATE: 10/01/1998

ASSIGNOR:

ARORA, PRAMOD K.

DOC DATE: 10/01/1998

ASSIGNEE:

NANOFILM, LTD.
10111 SWEET VALLEY DRIVE
VALLEY VIEW, OHIO 44125

SERIAL NUMBER: 09164489

PATENT NUMBER:

FILING DATE: 10/01/1998

ISSUE DATE:

KIMBERLY WHITE, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

To the Honorable Commissioner of Patents and Trademarks

and the attached original documents or copy thereof.

1. Name of conveying party(ies):

Brij P. Singh and
Pramod K. Arora

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date: October 1, 1998

2. Name and address of receiving party(ies)

Name: nanoFILM, Ltd.

Internal Address: _____

Street Address: 10111 Sweet Valley Drive

City: Valley View State: Ohio ZIP: 44125

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: Sept. 30, 1998

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: H. Duane Switzer

Internal Address: Jones, Day, Reavis & Pogue

Street Address: North Point

901 Lakeside Avenue

City: Cleveland State: Ohio ZIP: 44114

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00

- ☒ Enclosed
☒ Authorized to be charged to deposit account for any deficit.

8. Deposit account number:

10-1202

(Attach duplicate copy of this page if paying by deposit account)

1998 T10W11 00000314 09164489

DO NOT USE THIS SPACE

581 40.00 DP

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

H. Duane Switzer

Name of Person Signing

H. Duane Switzer
Signature

October 1, 1998

Date

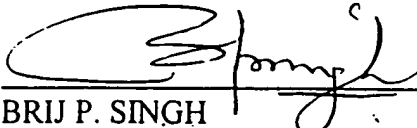
Total number of pages including cover sheet, attachments, and document: 3

ASSIGNMENT

In consideration of One Dollar and other good and valuable consideration, receipt of which is hereby acknowledged, we, **BRIJ P. SINGH** and **PRAMOD K. ARORA**, ("ASSIGNORS"), citizens of the United States and India, respectively, residing in North Royalton, Ohio, respectively, hereby sell, transfer, set over and assign unto **nanoFILM, Ltd.** ("ASSIGNEE"), an Ohio Limited Liability Company of the State of Ohio, having a principal place of business at 10111 Sweet Valley Drive, Valley View, Ohio 44125-4250, its successors, assigns, nominees, or other legal representatives, the entire right, title and interest in and to the invention **HYDROPHOBIC THIN FILMS ON MAGNESIUM FLUORIDE SURFACES** invented by us and the application for United States patent therefor, executed concurrently herewith, and all original and reissued patents granted therefor, and all divisions and continuations thereof, including the subject matter of any and all claims which may be obtained in every such patent, and the right to apply for and obtain patents in countries foreign to the United States, and in and to any Letters Patent which may be granted thereon in such foreign countries, and authorize and request the Commissioner of Patents and Trademarks of the United States, and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue the said Letters Patent to the said ASSIGNEE, its successors, assigns, nominees or other legal representatives, as assignee and owner of the entire interest, and covenant that we have full right to convey the entire interest herein assigned and that we have not executed and will not execute any agreement in conflict herewith, and agree that we will communicate to said ASSIGNEE, its successors, assigns, nominees or other legal representatives, all facts known to us respecting said invention, whenever requested, and testify in any legal proceedings, sign all lawful papers, execute and deliver all divisional, continuing and reissue applications, make lawful papers, execute and deliver all divisional, continuing and reissue applications, make all rightful oaths and do all lawful acts requisite for the application for such divisional, continuing or reissue applications, or the procuring thereof, and that if and when said ASSIGNEE, its successors, assigns, nominees or other legal representatives desire to file a disclaimer relating thereto we will, upon request, sign and deliver all lawful papers requisite for the filing of such disclaimer, and we further covenant and agree that we will, at any time upon request, do everything legally possible to aid said ASSIGNEE, its successors, assigns, nominees or other legal representatives, either in its or our own names, to apply for, obtain and enforce proper patent protection in all countries, including priority rights granted to patents in foreign countries according to all the laws and treaties in force, all without further consideration but at

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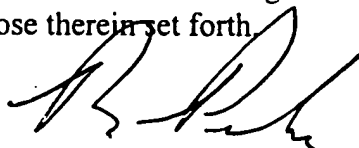
the expense of said ASSIGNEE, its successors, assigns, nominees or other legal representatives.


BRIJ P. SINGH


PRAMOD K. ARORA

STATE OF OHIO)
) SS.
COUNTY OF CUYAHOGA)

This 15th day of October, 1998 before me personally came the above-named BRIJ P. SINGH and PRAMOD K. ARORA, to me personally known as the individuals who executed the foregoing Assignment, and who acknowledged to me that they executed the same of their own free will for the purpose therein set forth.



Notary Public

(SEAL)

REI 07-15-1998

SHEET 6.30.98 U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

Tab settings 000 ▼

To the Honorable Commissioner of Patents

1. Name of conveying party(ies):

NanoFilm Corporation

Additional name(s) of conveying party(ies) attached? ☐

3. Nature of conveyance:

- ☐ Assignment ☒ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date: June 30, 1995

2. Name and address of receiving party(ies)

Name: nanoFILM, Ltd.

Internal Address: _____

Street Address: 10111 Sweet Valley Drive

City: Valley View State: Ohio ZIP: 44125

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)

See Attachment A

B. Patent No.(s)

See Attachment A

Additional numbers attached? ☒ Yes ☐ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Jacqueline M. O'Brien

Internal Address: JONES DAY REAVIS & POGUE
North Point

Street Address: 901 Lakeside Avenue

City: Cleveland State: Ohio ZIP: 44114

6. Total number of applications and patents involved: 11

7. Total fee (37 CFR 3.41).....\$ 440.00 E

☒ Enclosed

☒ Authorized to be charged to deposit account, if over or underpayment

8. Deposit account number:

10-1202

(Attach duplicate copy of this page if paying by deposit account)

/1998 JENBZZ 00000104 5078791

DO NOT USE THIS SPACE

681 AUG 06 98

Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Jacqueline M. O'Brien

Name of Person Signing

Signature

6/30/98

Date

Total number of pages including cover sheet, attachments, and document: 9

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box 100
Washington, D.C. 20231

REEL: 9297 FRAME: 0701



ATTACHMENT A

<u>U.S. Patent No.</u>	<u>Title</u>	<u>Issue Date</u>
5,078,791	Film Forming Composition and Method for Modifying Surfaces with Ultra-Thin Films	01/07/92
5,106,561	Ultra-Thin Molecular Film	04/21/92
5,166,000	Solution Containing Amphiphilic Molecules	11/24/92
5,173,365	Ultra-Thin Molecular Film	12/22/92
5,204,126	Thin Films	04/20/93
5,219,654	Film Forming Composition and Method for Modifying Surfaces with Ultra-Thin Films	06/15/93
5,300,561	Solution Containing Amphiphilic Molecules	04/05/94
5,766,698	Method for Modifying Surfaces with Ultra Thin Films	06/16/98

<u>U.S. Patent Application No.</u>	<u>Title</u>	<u>Filing Date</u>
08/321,088	Ultra-Thin Molecular Film	03/09/89
08/992,146	Method for Modifying Surfaces with Ultra Thin Films	12/17/97
09/084,944	Method for Modifying Surfaces with Ultra Thin Films	05/26/98

**Canadian Patent
Application No.**

Title

Filing Date

2,120,252	Solution Containing Amphiphilic Molecules	03/29/94
2,217,576	Method for Modifying Surfaces with Ultra Thin Films	10/07/97

**European Patent
Application No.**

92906253.7	Thin Films	11/20/91
92918168.3	Solution Containing Amphiphilic Molecules	08/12/92
97202777.5	Thin Films	09/10/97
97309401.4	Method for Modifying Surfaces with Ultra Thin Films	11/21/97

**Japanese Patent
Application No.**

297244/89	Ultra-Thin Molecular Film	11/15/89
-----------	---------------------------	----------

**Patent Cooperation
Treaty Application No.**

PCT/US91/08748	Thin Films	11/20/91
----------------	------------	----------



Prescribed by
Bob Taft, Secretary of State
30 East Broad Street, 14th Floor
Columbus, Ohio 43266-0418
Form MER (July 1994)



Approved _____
Date _____
Fee _____

CERTIFICATE OF MERGER

In accordance with the requirements of Ohio law, the undersigned corporations, limited liability companies and/or limited partnerships, desiring to effect a merger, set forth the following facts:

I. SURVIVING ENTITY

A. The name of the entity surviving the merger is:

nanoFILM, Ltd.

(If the surviving entity is an Ohio limited partnership or qualified foreign limited partnership, its registration number must be provided)

B. Name change: As a result of this merger, the name of the surviving entity has been changed to the following: _____

only if the name of surviving entity is changing through the merger

C. The surviving entity is a: *(Please check the appropriate box and fill in the appropriate blanks)*

☐ Domestic (Ohio) corporation

☐ Foreign (Non-Ohio) corporation incorporated under the laws of the state/ country of _____ and licensed to transact business in the state of Ohio.

☐ Foreign (Non-Ohio) corporation incorporated under the laws of the state/country of _____, and NOT licensed to transact business in the state of Ohio.

xxxxxx Domestic (Ohio) limited liability company

☐ Foreign (Non-Ohio) limited liability company organized under the laws of the state/country of _____, and registered to do business in the state of Ohio.

☐ Foreign (Non-Ohio) limited liability company organized under the laws of the state/country of _____, and NOT registered to do business in the state of Ohio.

☐ Domestic (Ohio) limited partnership, registration number _____

- [] Foreign (Non-Ohio) limited partnership organized under the laws of the state/country of _____, and registered to do business in the state of Ohio, under registration number _____
- [] Foreign (Non-Ohio) limited partnership organized under the laws of the state/country of _____, and NOT registered to do business in the state of Ohio.

II. Merging Entities

The name, type of entity, and state/country of incorporation or organization, respectively, of each entity, other than the survivor, which is a party to the merger are as follows: (If beneficiaries agree to cover this item, please attach a separate sheet listing the merging entities, Ohio registered or foreign qualified limited partnerships must include registration number)

Name	State/ Country of Organization	Type of Entity
NanoFilm Corporation	Ohio	corporation
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

III. Merger Agreement on File

The name and mailing address of the person or entity from whom/which eligible persons may obtain a copy of the agreement of merger upon written request:

Name	Address
Scott E. Rickert	10111 Sweet Valley Drive (street and number) Valley View, OH 44125-4250 (city, village or township) (state) (zip code)

IV. Effective Date of Merger

This merger is to be effective:

On June 30, 1995 (if a date is specified, the date must be a date on or after the date of filing; the effective date of the merger cannot be earlier than the date of filing; if no date is specified, the date of filing will be the effective date of the merger).

V. Merger Authorized

The laws of the state or country under which each constituent entity exists, permits this merger.

This merger was adopted, approved and authorized by each of the constituent entities in compliance with the laws of the state under which it is organized, and the persons signing this certificate on behalf of each of the constituent entities are duly authorized to do so.

VI. Statutory Agent

The name and address of the surviving entity's statutory agent upon whom any process, notice or demand may be served is:

Name	Address
<u>A.G.C. Co.</u>	<u>1900 East Ninth Street, Suite 3200</u> <small>(complete street address)</small>
	<u>Cleveland, OH 44114</u> <small>(city, village or township) (zip code)</small>

(This item MUST be completed if the surviving entity is a foreign entity which is not licensed, registered or otherwise authorized to conduct or transact business in the State of Ohio)

Acceptance of Agent

The undersigned, named herein as the statutory agent for the above referenced surviving entity, hereby acknowledges and accepts the appointment of statutory agent for said entity.

Signature of Agent

(The acceptance of agent must be completed by domestic surviving entities if through this merger the statutory agent for the surviving entity has changed, or the named agent differs in any way from the name reflected on the Secretary of State's records.)

VII. Statement of Merger

Upon filing, or upon such later date as specified herein, the merging entity/entities listed herein shall merge into the listed surviving entity.

VIII. Amendments

The articles of incorporation, articles of organization or certificate of limited partnership (strike the inapplicable terms) of the surviving domestic entity herein, are amended as set forth in the attached "Exhibit A"

(Please note that any amendments to articles of incorporation, articles of organization or to a certificate of limited partnership MUST be attached if the surviving entity is a DOMESTIC corporation, limited liability company, or limited partnership.)

The undersigned constituent entities have caused this certificate of merger to be signed by its duly authorized officers, partners and representatives on the date(s) stated below.

nanoFILM, Ltd.
exact name of entity

By: Scott E. Rickert
Its: Scott E. Rickert, President

Date: _____

NanoFilm Corporation
exact name of entity

By: Scott E. Rickert
Its: Scott E. Rickert, President

Date: _____

exact name of entity

By: _____
Its: _____

Date: _____

exact name of entity

By: _____
Its: _____

Date: _____

exact name of entity

By: _____
Its: _____

Date: _____

exact name of entity

By: _____
Its: _____

Date: _____

exact name of entity

By: _____
Its: _____

Date: _____

exact name of entity

By: _____
Its: _____

Date: _____

exact name of entity

By: _____
Its: _____

Date: _____

exact name of entity

By: _____
Its: _____

Date: _____

(Please note that the officers of the board, the president, vice president, secretary or its assistant secretary must sign on behalf of each constituent corporation, and in turn, a general partner must sign on behalf of each constituent limited partnership; if insufficient space for signature, a separate sheet should be attached containing such signatures)

CERTIFICATION

I hereby certify that the attached Certificate of Merger of NanoFilm Corporation
into nanoFILM, Ltd., an Ohio Limited Liability Company, is a true and exact copy of the original.

STATE OF OHIO)
) ss.
COUNTY OF CUYAHOGA)

Jacqueline M O'Brien
Jacqueline M. O'Brien - Notary Public

Date: June 30, 1998

My Commission Expires:

JACQUELINE M. O'BRIEN
Notary Public, State of Ohio, Cuy. Cty.
My Commission Expires Aug. 2, 1999

Please type a plus sign (+) in this box

PTO/SB/81 (02-01)

Approved for use through 10/31/2002. OMB 0651-0035

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

**POWER OF ATTORNEY OR
AUTHORIZATION OF AGENT**

Application Number	
Filing Date	
First Named Inventor	Pramod K. Arora
Title	
Group Art Unit	
Examiner Name	
Attorney Docket Number	495263010035

I hereby appoint:

- ☒ Practitioners at Customer Number 24325
OR
☐ Practitioner(s) named below:



24325

PATENT TRADEMARK OFFICE

Name	Registration Number

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please change the correspondence address for the above-identified application to:

- ☐ The above-mentioned Customer Number.
OR
☐ Practitioners at Customer Number → Place Customer
Number Bar Code
Label here
OR

☐ Firm or
Individual Name

Address

Address

City

State

Zip

Country

Telephone

Fax

I am the:

- ☒ Applicant/Inventor.

☐ Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB196).

SIGNATURE of Applicant or Assignee of Record

Name

Brij P. Singh

Signature

Date

7-02-01

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

☒ Total of 2 forms are submitted.

Burden Hour Statement: This form is estimated to take 3 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

September 19, 2000

To: Dr. Brij Singh
VP, Technology
NANOFILM

From: Dr. Pramod Arora
Director, Thin Film Technology

Sub: Resignation from employment

Dear Dr. Singh,

Over the years working at NANOFILM was very exiting and challenging and I tried to be a loyal employee. It was a great experience working under your supervisions and some time it was very difficult to perform my duties under very tight schedule without getting an award. I have always enjoyed my profession, no matter where I have worked with true devotion and honesty. I can not fool others or myself. I am a person who always respect peoples and helps them when they needed the most. Last year, I was told that company will provide all the resources and instrumentation to perform my duties and finish a project in a scientific and systematic manner. But due to limited resources and not having proper instrumentation in hand my performance was always judged on the basis of accomplishment of a project.

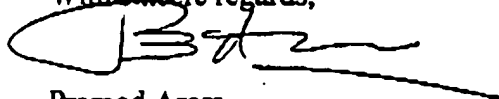
A manager or a company representative should give all the resources and required instrumentation to a project director and let the person do his job in a best possible manner. Project director is required to submit monthly report.

I am submitting my resignation effective immediately. I will be cleaning my office and give all the necessary notebook and papers to you by the end of this week. Therefore, this Friday, September 22, 2000 will be my last day at NANOFILM.

I also understand that I will be rewarded for each patents a sum of \$3000 each once they get approved or published. We have submitted two patents (1998 and 1999) and there are two more to be submitted and these are Plasma Cup and Anti-fog hard coating. Pelisse on car windows, PermaSeal for AR lenses and InkBeGone products should also be rewarded as well if company market them in the next 12 months.

Thank you for your help and co-operation during my stay at NANOFILM. If I can be any helpful to you or anyone while not employed by NANOFILM please never hesitate to contact me at any time.

With sincere regards,



Pramod Arora